

Title (en)

A two-wire controlling and monitoring system for in particular irrigation of localised areas of soil

Title (de)

Zweidraht-Steuer- und Überwachungssystem insbesondere zur Bewässerung von örtlich begrenzten Bodenbereichen

Title (fr)

Système de deux câbles pour le contrôle et surveillance de, en particulier, l'arrosage de zones localisées du sol

Publication

**EP 1806049 A1 20070711 (EN)**

Application

**EP 06388063 A 20061120**

Priority

US 28350505 A 20051118

Abstract (en)

A two-wire controlling and monitoring system for in particular irrigation of localised areas of soil according to a aspect of the invention comprises a water pipeline, a first plurality of controllable irrigation valves, a second plurality of field sensors measuring specific irrigation parameters, and a third plurality of localised irrigation control units. The third plurality of localised irrigation control units each comprises a sensor decoder connected to a specific field sensor of the second plurality of field sensors and/or a line decoder connected to a specific controllable irrigation valve of the first plurality of controllable irrigation valves. The two-wire controlling and monitoring system further comprises a controller and power supply unit having a set of schedules of instructions and supplying power by applying a first alternating DC voltage signal to a two-wire cable interconnecting the controller and power supply unit and the third plurality of localised irrigation control units. The two-wire cable provides the power from the controller and power supply unit to each of the third plurality of localised irrigation control units. The controller and power supply unit transmits the schedules of instructions to the third plurality of localised irrigation control units through the two-wire cable and receives the specific irrigation parameters from the third plurality of localised irrigation control units through the two-wire cable.

IPC 8 full level

**A01G 25/16** (2006.01)

CPC (source: EP US)

**A01G 25/16** (2013.01 - EP US); **A01G 25/167** (2013.01 - EP US); **Y10T 137/1866** (2015.04 - EP US)

Citation (applicant)

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